

1724



PATENT
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the application of)	
)	
Redmon, David T., et al.)	
)	
Ser. No: 10/667,893)	Group Art Unit: 1724
)	
Filed: September 23, 2003)	Examiner: Chester T. Barry
)	
For: Controlling Wastewater)	Atty. Dkt. No. 3085-004
Treatment Processes)	

INFORMATION DISCLOSURE STATEMENT
UNDER 37 C.F.R. 1.97 AND 1.98

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Submitted herewith are copies of the documents that are listed on the attached four sheets of PTO Forms PTO/SB/08A (two sheets) and PTO/SB/08B (two sheets) for consideration by the Examiner in charge of the above-identified patent application.

Since the identification and submission of these documents are for the purpose of meeting applicants' duty of disclosure under 37 C.F.R.

§1.56, applicants neither admit or deny that any of these documents constitutes prior art as to the invention claimed in the present application.

The identification, by column, line number and Figure number, of portions of the listed U.S. patents is not intended to represent that such portions are the only or most pertinent portions, but rather to identify the portions that were of interest to the undersigned. Since these patents may contain relevant information other than that which has been identified, the Examiner is urged to review the documents completely and form his own conclusions with regard to the relevance of the patents.

Copies of translations of some non-English language documents, or of excerpts therefrom, are attached. Applicant's do not represent that the translated excerpts are the only or most pertinent parts of the documents. Rather they were the parts that came to the attention of the undersigned. Applicants do not represent that any of the excerpts or other translations is free from omissions, except to say that they have no knowledge suggesting that there are omissions. Nor do applicants represent that any of the translations is accurate, except to say that the EPO esp@acenet abstracts and other human translations were prepared by translators thought to be

competent, and that the machine translations (furnished by a search firm) are quite difficult to interpret and may contain inaccuracies.

For the concise explanation required by 37 C.F.R. § 1.98 (a)(3)(i) with respect to those foreign language documents for which no translation or only a machine translation has been submitted, copies of English language EPO esp@cenet or other abstracts have been provided.

The attached documents are being submitted following receipt of a first Office Action, but prior to the undersigned having any notice of a Final Office Action or a Notice of Allowance. Check No. 13997 in the amount of \$180.00 is attached hereto in payment of the fee required by 37 C.F.R. §§ 1.17(p) and 1.97.

Respectfully submitted,



Dated: September 15, 2005

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(Use as many sheets as necessary)

Sheet 1 of 4

U.S. GOVERNMENT PRINTING OFFICE: 1980-276-100

Complete if Known

Application Number	10/667,893
Filing Date	September 23, 2003
First Named Inventor	Redmon, David T.
Art Unit	1724
Examiner Name	Chester T. Barry
Attorney Docket Number	3085-004

U. S. PATENT DOCUMENTS

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
		US- 3,872,003	03-18-1975	Walker	2/24-47; 6/4-8
		US- 5,234,596	08-10-1993	Greeb	2/36-39; 3/38-48, 59-63
		US- 5,441,642	08-15-1995	Wickens	1/40-41, 2/30-51, 4/5-42,
		US- 6,036,862	03-14-2000	Stover	3/15-36; 6/15-55; 7/15-57;
		US-			8/14-67; 9/1-13/25;
		US- 6,146,896	11-14-2000	Pitz	1/47-2/61; 3/3-39; 4/13-49;
		US-			6/5-62; 7/10-34;
		US- 6,478,964	11-12-2002	Redmon	Fig. 13; 6/33-46
		US- 4,288,394	09-08-1981	Ewing, et al.	of general interest
		US-			
		US-			
		US-			Note: 2/24-47 signifies
		US-			column 2, lines 24
		US-			through 47.
		US-			
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FOREIGN PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
		WO 01/34527 A1	05-17-2001	Stover	see US Pat 6,036,682	
		EP 0732588-German text	09-18-1996	Hallas	with English abst.	
		EP 0732588-translation	09-18-1996	Hallas	machine translation	
		DE 19509777A1-Germ. Txt.	09-19-1996	Hallas	see EP 0732588	
		DE 19509777A1-Partl. Tran.	09-19-1996	Hallas	by human translator	

Examiner
Signature

Date
Considered

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This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Substitute for form 1449/PTO

(Use as many sheets as necessary)

Sheet 2 of 4

Complete if Known

Application Number	10/667,893
Filing Date	September 23, 2003
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		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
		DE 4229550, German text	03-10-1994	Hallas	with English abst.	
		DE 4229550, translation	03-10-1994	Hallas	by human translator	
		JP 2000-069955, abstract	03-07-2000	Kawahara, et al.	English abst. only	
		JP 2000-069955, transln.	03-07-2000	Kawahara, et al.	machine translation	

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Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Complete if Known			
		Application Number	10/667.893		
		Filing Date	September 23, 2003		
		First Named Inventor	Redmon, David T.		
		Art Unit	1724		
		Examiner Name	Chester T. Barry		
Sheet	3	of	4	Attorney Docket Number	3085-004

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		WPCF ("Water Poll. Contr. Federation"), "Process Instrumentation and Control Systems", MOP ("Manual of Practice") #OM-5, 1984, pp. ii, 3-7 and 20-21, WPCF, Wash., D.C., USA	
		ARTHUR et al., "Instrumentation in Wastewater Treatment Plants", MOP #21, 1978, pp. 28-34, 74, 75, 77 and 78, WPCF Sub-committee on Instrumentation, Wash., D.C., USA	
		STAHL et al., "Energy Conservation in the Design and Operation of Wastewater Treatment Facilities", MOP #FD-2, 1982, pp. 28-33, WPCF, Wash., D.C., USA	
		WPCF+ASCE ("Amer. Soc. of Civ. Engrs."), "Aeration, A Wastewater Treatment Process", MOP #FD-13, 1988, pp.10-12, 44-45, 112, 137-140, 142 & 144-147, Wash., DC & New York, NY	
		BOYLE et al., ASCE Comm. on Oxygen Transfer, "Design Manual, Fine Pore Aeration Systems", 1989, pp. 149-156 and 167, U. S. Env. Prot. Agency, Cincinnati, OH, US	
		TANUMA et al., "Dissolved Oxygen Control Using Aeration Exhaust Gas", Water Science and Tech., Jour. art. and abst., 1981, vol. 13, no. 9, pp. 183-188, Pergamon Press, GB	
		KOENIG et al., "Effect of air recirculation on ... composting system", Proceedings, AWMA ("Air & Waste Mgmt. Assoc."), 1998, Abstract of paper, AWMA, Pittsburgh, PA, USA..	
		PELKONEN et al., "Modelling of oxygen transfer ... with off-gas method", 1989, Abstract of paper, Helsinki Univ. of Tech., Lab. of Sanitary and Env. Engg., Espoo, Finland	
		YUST et al., "Control of the specific oxygen utilisation ...", Trans. of the Inst. of Meas. and Control, 1984, Abst. of jour. art., Water Poll. Control, Burlington, Ont., CA	
		LIBRA, et al., "Improving aeration efficiency ... using on-line off-gas measurements", Intl. Cong. on the Process Industries, Mar. '02, poster, Mex. DF, Tech. Univ. Berlin, DE	

Examiner Signature	Date Considered
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Sheet <u>4</u>	of <u>4</u>	Attorney Docket Number	3085-004

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		REDMON. BOYLE & EWING, "Oxygen transfer efficiency measurements in mixed liquor using off-gas techniques", WPCF Journal, Nov., '83, pp. 1338-1347, Vol. 55, No. 11, WPCF, USA	
		REDMON, "Alpha factors - measured for various types of aeration systems by off-gas analysis", publication of Redmon Engineering Company, 1998, pp. 1-13, Racine WI, USA	
		MARX, et al., "Optimizing step feed aeration design using off-gas testing", 70th Annual WEF Conf., Chicago, repub. by Earth Tech, 1997, pp. 1-9, Sheboygan, WI, USA	
		REDMON, et al., "Measuring the impact of a 3-hp blower assist on the aeration efficiency of a 50-hp aspirating aerator", TAAPI Journal, Jan. 1992, pp. 105-110, USA	
		DAUGHTERY, et al., "Aeration system retrofit design optimization procedure", Proceedings, Central States WEF Conf., reprint by the authors, 1995, pp. 1-46, Milwaukee, WI, USA	
		REDMON, et al., "Pilot studies and full scale performance evaluation of a membrane disk aeration system ...", TAPPI Proceedings, 1992 Environmental Conference, pp. 563-577	
		REDMON, David T., professional resume, with bibliography of illustrative publications relating to off-gas testing, Redmon Engineering Company, 2005, 6 pages, Racine, WI, USA	
		ASCE ("Amer. Soc. of Civ. Engrs."), "Measurement of oxygen transfer in clean water", ANSI/ ASCE Standard 2-01, approved June 1992, pp. 1-41 & index, ASCE, New York, NY, USA	
		ASCE, "Standard guidelines for in-process oxygen transfer testing", ASCE Standard 18-96, 1997, cover, abstract page, pp. iii-vii, ix and x, and pp. 1-49, New York, NY, USA	

Examiner Signature		Date Considered	
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